

WHAT IS CLAIMED AS NEW AND DESIRED TO BE SECURED BY LETTERS
PATENT OF THE UNITED STATES IS:

1. A peptide which is a fragment of a gastric cancer antigen protein present in a human gastric cancer cell,
5 said fragment being bound to an HLA molecule and capable of inducing a cytotoxic T cell that targets said gastric cancer cell.
2. The peptide of Claim 1, wherein the HLA molecule is HLA-A31.
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3. The peptide of Claim 1, wherein said peptide has an amino-acid sequence represented by SEQ ID NO: 1 of the Sequence Listing.
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4. The peptide of Claim 1, which has an amino-acid sequence obtained by modifying the amino-acid sequence represented by SEQ ID NO: 1 of the Sequence Listing in order that said peptide can induce more efficiently the cytotoxic T cell that targets the gastric cancer cell.
5. The peptide of claim 4 which has an amino-acid sequence represented by SEQ ID NO: 2 of the Sequence
20 Listing.
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6. A composition for preventing or treating human gastric cancer, said composition containing a peptide which is a fragment of a gastric cancer antigen protein present in a human gastric cancer cell, said fragment being bound to an HLA molecule and capable of inducing a cytotoxic T cell that targets the gastric cancer cell.
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7. The composition of Claim 6, wherein the HLA molecule is HLA-A31.

8. The composition of Claim 6, wherein said peptide has an amino-acid sequence represented by SEQ ID NO: 1 of 5 the Sequence Listing.

9. The composition of Claim 6, wherein said peptide has an amino-acid sequence represented by SEQ ID NO: 2 of the Sequence Listing.

10. A DNA encoding a peptide which is a fragment of a 10 gastric cancer antigen protein present in a human gastric cancer cell, said fragment being bound to an HLA molecule and capable of inducing a cytotoxic T cell that targets said gastric cancer cell.

11. The DNA of Claim 10, wherein the HLA molecule is 15 HLA-A31.

12. The DNA of Claim 10, wherein said peptide has an amino-acid sequence represented by SEQ ID NO: 1 of the Sequence Listing.

13. The DNA of claim 10, wherein said peptide has an 20 amino-acid sequence represented by SEQ ID NO: 2 of the Sequence Listing.

14. A vaccine for preventing or treating human 25 gastric cancer, said vaccine containing a recombinant virus or a recombinant bacterium having a DNA encoding a peptide which is a fragment of a gastric cancer antigen protein present in a human gastric cancer cell, said fragment being

bound to an HLA molecule and capable of inducing a cytotoxic T cell that targets said gastric cancer cell.

15. The vaccine of Claim 14, wherein the HLA molecule is HLA-A31.

5 16. The vaccine of Claim 14, wherein said peptide has an amino-acid sequence represented by SEQ ID NO: 1 of the Sequence Listing.

10 17. The vaccine of claim 14, wherein said peptide has an amino-acid sequence represented by SEQ ID NO: 2 of the Sequence Listing.

15 18. A method for preventing or treating gastric cancer comprising administering to a patient in need thereof an effective amount of a peptide which is a fragment of a gastric cancer antigen protein present in a human gastric cancer cell, said fragment being bound to an HLA molecule and capable of inducing a cytotoxic T cell that targets said gastric cancer cell.

20 19. A method for preventing or treating gastric cancer comprising administering to a patient in need thereof an effective amount of CTL which have been activated with a peptide which is a fragment of a gastric cancer antigen protein present in a human gastric cancer cell, said fragment being bound to an HLA molecule and capable of inducing a cytotoxic T cell that targets said 25 gastric cancer cell.

20. A method for preventing or treating gastric cancer, comprising administering to a patient in need

thereof an effective amount of a vaccine containing a recombinant virus or a recombinant bacterium having a DNA encoding a peptide which is a fragment of a gastric cancer antigen protein present in a human gastric cancer cell,
5 said fragment being bound to an HLA molecule and capable of inducing a cytotoxic T cell that targets said gastric cancer cell.